######################################	000000000 0000000000 0000000000 000 000 000 000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		LLL LLL LLL LLL LLL LLL LLL LLL
FFF	00000000	RRR RRR	RRR RRR	††† †††	
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		000000 00 00 00 00	MM MM MMM MMM MMMM MMM MM MM MM MM MM MM	000000 00 00 00 00
		\$					

- entry point for FORTRAN DECODE OBJECT- 15-SEP-1984 23:51:10 VAX/VMS Macro VO4-00 FORSDECODE MO Table of contents Page 0 HISTORY ; Detailed Current Edit DECLARATIONS FOR DECODE MO - DECODE OBJECT-FORMATTED 56 85 133 ; Detailed Current Edit History (2) (3) (4)

```
- entry point for FORTRAN DECODE OBJECT- 15-SEP-1984 23:51:10 VAX/VMS Macro V04-00 Page 1 6-SEP-1984 10:54:39 [FORRTL.SRCJFORDECOMO.MAR;1 (1)

0000 1 .TITLE FOR$DECODE_MO - entry point for FORTRAN DECODE OBJECT-FORMATTED File: FORDECOMO.MAR Edit: JAW1011
```

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FACILITY: FORTRAN Support Library - user callable

ABSTRACT:

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\*\*\*\*

10112314567

1890123456789012345

48901234

0000 0000 0000 This module contains the entry point for the FORTRAN DECODE OBJECT-FORMATTED I/O statement. It is simply a call to FOR\$\$IO\_BEG with bits in RO which describe the parameter list. FOR\$\$IO\_BEG interprets the parameters.

MAINTENANCE NOTE:

The transfer vector (RTLVECTOR+ALLGBL) must have the following:

.TRANSFER FOR\$DECODE\_MO
.MASK FOR\$\$IO\_BEG
BRW FOR\$DECODE\_MO+2

This puts the correct mask in entry vector, that is FOR\$\$10\_BEG entry mask. Furthermore this module must only use RO and R1 since any other register might not be in the entry mask for FOR\$\$10\_BEG.

ENVIRONMENT: User access mode; mixture of AST level or not

AUTHOR: Richard B. Grove, CREATION DATE: 28-May-78

MODIFIED BY:

T. Hastings, 29-July-78

0000 56
0000 57
0000 58
0000 59
0000 60
0000 61
00-10 - Add comment about vectors. TNH 23-June-78
0000 62: 0-12 - Pass arg in R0, not R0R, add comments. TNH 29-July-78
0000 63: 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 64: 1-002 - Change statement type symbols to be LUB\$K... JBS 07-DEC-78
0000 65: 1-003 - Change statement type symbols to be ISB\$K... JBS 11-DEC-78
0000 66: 1-004 - Add "" to the PSECT directive. JBS 22-DEC-78
0000 67: 1-005 - Add FÖR\$READ\_KF, FOR\$READ\_KO, FOR\$REWRITE\_SF, FOR\$REWRITE\_SO,
FOR\$READ\_IF, FOR\$READ\_LO, FOR\$REWRITE\_IF, FÖR\$WRITE\_IO,
0000 69
0000 70: SBL 2-May-1979
0000 71: 1-006 - Remove all entry points that need object time formatting,
putting them in FOR\$ENTRY\_OBJ so that we can arrange to
0000 76: JBS 26-JUN-1979
0000 77: 1-007 - Remove entry point FOR\$ENCODE\_MF; we will code a new module
0000 76: 1-008 - Do likewuse for FOR\$ERAD\_DU and FOR\$WRITE\_DU. JBS 03-JUL-1979
0000 80: 1-009 - Remove all entry points and add FOR\$WRITE\_DU. JBS 03-JUL-1979
0000 81: 1-009 - Remove all entry points and add FOR\$WRITE\_DU. JBS 09-JUL-1979
0000 82: 1-010 - New parameter format for FOR\$\$IO\_BEG. SBL 5-Dec-1979
0000 83: 1-011 - Change BRW FOR\$\$IO\_BEG+2 to JMP G^FOR\$\$IO\_BEG+2. JAW 21-Feb-1981

```
- entry point for FORTRAN DECODE OBJECT- 15-SEP-1984 23:51:10 VAX/VMS Macro VO4-00 DECLARATIONS 6-SEP-1984 10:54:39 [FORTL.SRCJFORDECOMO.MAR;1
                                  .SBTTL DECLARATIONS
                 INCLUDE FILES:
                                  SFORPAR
SISBDEF
                                                                              ; Define inter-module FORTRAN symbols ; Define statement type symbols
                         EXTERNAL SYMBOLS:
                                  .DSABL GBL
.EXTRN FOR$$10_BEG
                                                                              ; Declare all external symbols
                                                                              ; common I/O statement processing
                      The following references are to make sure the necessary UDF and REC modules are loaded. These are the routines which are called through the dispatch tables in FOR$$DISPAT.
                 104
                                  .EXTRN FOR$$UDF_RFO, FOR$$UDF_RF1, FOR$$UDF_RF9
.EXTRN FOR$$REC_RMF0, FOR$$REC_RMF1, FOR$$REC_RMF9
                 106
107
108
109
110
                      : The following reference makes sure the format compiler is loaded.
                                  .EXTRN FOR$$FMT_COMPIL
MACROS:
                                  NONE
                         PSECT DECLARATIONS:
                                  .PSECT _FOR$CODE PIC,USR,CON,REL,LCL,SHR,EXE,RD,NOWRT,LONG
                         EQUATED SYMBOLS:
                         OWN STORAGE:
                                  NONE
```

0000 0000 176 177 FORSDECODE MO:: .MASK MOVZWL #ISBSK FOR\$\$10\_BEG #ISB\$K ST TY RMF+ <1@FOR\$V OBJ FMT>, RO G^FOR\$\$IO\_BEG+2 010C 8F Statement type 17 179 00000002 GF 0007 ; branch past call mask 180 181 182 000D

.END

0000

000D

```
- entry point for FORTRAN DECODE OBJECT- 15-SEP-1984 23:51:10 VAX/VMS Macro VO4-00 6-SEP-1984 10:54:39 [FORRTL.SRC]FORDECOMO.MAR;1
 FORSDECODE_MO
                                                                                                                                                                                                             Page
 Symbol table
FORSSIO_BEG
                                                                                *******
FORSSREC RMFO
FORSSREC RMF1
FORSSREC RMF9
FORSSUDF RF0
FORSSUDF RF1
FORSSUDF RF9
                                                       00000000 RG
 FORSDECODE MO
FORSV_OBJ_FMT
ISBSK_ST_TY_RMF
                                                    = 00000008
                                                    = 0000000C
                                                                                   Psect synopsis !
PSECT name
                                                                                       PSECT No.
                                                      Allocation
                                                                                                         Attributes
                                                      00000000 (
    ABS
                                                                                       00 ( 0.)
                                                                                                                                                                                         NOWRT NOVEC BYTE
                                                                                                                                                    LCL NOSHR NOEXE NORD
 FOR$CODE
                                                                                       01 (
                                                      0000000D
                                                                                                            PIC
                                                                                                                      USR
                                                                                                                                CON
                                                                                                                                                    LCL
                                                                                                                                                              SHR
                                                                                                                                                                      EXE
                                                                                                                                                                                  RD
                                                                                                                                                                                         NOWRT NOVEC LONG
                                                                              Performance indicators !
Phase
                                          Page faults
                                                                   CPU Time
                                                                                            Elapsed Time
                                                                                           00:00:00.91
00:00:03.83
00:00:04.56
00:00:00.18
00:00:02.48
00:00:00.02
00:00:00.19
00:00:00.00
Initialization
                                                                   00:00:00.09
                                                                   00:00:00.59
00:00:01.25
00:00:00.18
Command processing
                                                      119
Pass 1
                                                      47
Symbol table sort
Pass 2
                                                                  00:00:00.46
00:00:00.02
00:00:00.02
Symbol table output
Psect synopsis output
Cross-reference output
                                                                   00:00:00.00
Assembler run totals
                                                     332
                                                                   00:00:02.61
The working set limit was 1050 pages. 6710 bytes (14 pages) of virtual memory were used to buffer the intermediate code. There were 20 pages of symbol table space allocated to hold 188 non-local and 0 local symbols. 182 source lines were read in Pass 1, producing 8 object records in Pass 2. 9 pages of virtual memory were used to define 2 macros.
                                                                            Macro library statistics !
Macro Library name
                                                                           Macros defined
 $255$DUA28:[FORRTL.OBJ]FORRTL.MLB;1
$255$DUA28:[SYSLIB]STARLET.MLB;2
                                                                                             02
```

183 GETS were required to define 2 macros.

TOTALS (all libraries)

There were no errors, warnings or information messages.

- entry point for FORTRAN DECODE OBJECT- 15-SEP-1984 23:51:10 VAX/VMS Macro VO4-00 6-SEP-1984 10:54:39 [FORRTL.SRC]FORDECOMO.MAR;1 FORSDECODE\_MO VAX-11 Macro Run Statistics MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$: FORDECOMO/OBJ=OBJ\$: FORDECOMO MSRC\$: FORDECOMO/UPDATE=(ENH\$: FORDECOMO)+LI 0179 AH-BT13A-SE

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